In the claims:

1. (currently amended) A phototherapy [[Phototherapy]] equipment comprising a light source [[(5, 49)]], a light guide [[(6, 46)]] suitable for directing the light to the inlet of a terminal pen [[(4, 50)]] for projecting a light beam onto living tissues, wherein ~~characterized in that~~ it comprises at least one plate [[(28, 70)]] at the outlet of the polarizer [[(25, 65)]] arranged to give the light a defined, clockwise or counterclockwise direction (D, L) of polarization.

2. (currently amended) The equipment as claimed in claim 1, wherein ~~characterized in that~~ the plate [[(28, 70)]] is a quarter-wave plate.

3. (currently amended) The equipment as claimed in claim 1, wherein ~~characterized in that~~ the plate [[(28, 70)]] is a half-wave plate.

4. (currently amended) The equipment as claimed in claim 3, wherein ~~one of the claims 2 or 3, characterized in that~~ the plate is positioned according to two positions of use.

5. (currently amended) The equipment as claimed in claim 4, wherein ~~characterized in that~~ the plate is positioned at approximately 45° to the left or at approximately 45° to the right of a neutral position.

6. (currently amended) The equipment as claimed in claim 5, wherein ~~one of the claims 4 or 5, characterized in that~~ the two positions are obtained under the action of a micro-motor acting in clockwise (D) or counterclockwise (L) rotation.

[[8]] 7. (currently amended) The equipment as claimed in claim 6, wherein ~~one of the claims 1 to 7, characterized in that~~ the light guide is an optical fiber cable.

[[9]] 8. (currently amended) The equipment as claimed in claim 7, wherein ~~one of the claims 1 to 8, characterized in that~~ the pen [[(4, 50)]] includes an iris [[(31, 74)]].

[[10]] 9. (currently amended) The equipment as claimed in claim 1, wherein ~~characterized in that~~ it includes a barrel [[(10)]] provided with filters, Fi, of different wavelengths connected to a drive unit, the barrel being arranged at the outlet of the light source.

[[11]] 10. (currently amended) The equipment as claimed in claim 9, wherein ~~one of the claims 1 to 9, characterized in that~~ the polarizer is a circular polarizer.

[[12]] 11. (currently amended) The equipment as claimed in claim 10, wherein ~~one of the preceding claims, characterized in that~~ the polarizer is an elliptical polarizer.

[[13]] 12. (currently amended) The equipment as claimed in claim 11, wherein ~~one of the claims 1 to 12, characterized in that~~ the light source [[(5, 49)]] is a halogen or xenon lamp equipped with monochromatic filters.

[[14]] 13. (currently amended) The equipment as claimed in claim 12, wherein ~~one of the claims 1 to 12, characterized in that~~ the light source [[(5, 49)]] is a laser diode.

[[15]] 14. (currently amended) The equipment as claimed in claim 1, wherein ~~one of the claims 1 to 11, characterized in that~~ the light source comprises a set of laser diodes of different colors.

[[16]] 15. (currently amended) A method of cosmetic treatment of tissues of biological cells by phototherapy comprising the irradiation of the tissue with incoherent and/or coherent, polarized monochromatic light, characterized in that the wavelength to be used is selected and the direction of polarization of the light is determined so as to adapt this dextrorotatory or levorotatory orientation to the right or left chirality of the molecules in relation to the treatment to be applied.

[[17]] 16. (currently amended) A method for application in food-processing industry for the treatment of tissues of biological cells by phototherapy comprising the

irradiation of the tissue with incoherent and/or coherent, polarized monochromatic light, characterized in that the wavelength to be used is selected and the direction of polarization of the light is determined so as to adapt this dextrorotatory or levorotatory orientation to the right or left chirality of the molecules in relation to the treatment to be applied.

[[18]] 17. (currently amended) The method as claimed in claim 15, wherein ~~16 or 17, characterized in that~~ a quarter-wave plate is used.

[[19]] 18. (currently amended) The method as claimed in claim 16, wherein ~~16 or 17, characterized in that~~ a half-wave plate is used.

[[20]] 19. (currently amended) An application of the equipment as claimed in claim 1, wherein ~~one of the claims 1 to 15 to~~ the treatment of biological cells by phototherapy comprising the irradiation of the tissue with incoherent and/or coherent, polarized monochromatic light, characterized in that the wavelength to be used is selected and the direction of polarization of the light is determined so as to adapt this dextrorotatory or levorotatory orientation to the right or left chirality of the molecules in relation to the treatment to be applied.